

Title (en)

Method for the combustion of fluidal fuels.

Title (de)

Verfahren zur Verbrennung von fließfähigen Brennstoffen.

Title (fr)

Procédé de combustion pour combustibles fluides.

Publication

EP 0144918 A2 19850619 (EN)

Application

EP 84114482 A 19841129

Priority

SE 8306653 A 19831202

Abstract (en)

The invention relates to a method and an apparatus for the combustion of fluidal fuels. The fuel is dispersed in combustion air and, in order to improve the combustion rate and efficiency, the fuel is exposed to a high particle velocity of a sound produced by a low frequency sound generator. The frequency of the sound is determined by the sound generator (1, 11), the maximum frequency being 60 Hz. A reciprocating movement of combustion air and fuel particles entrained therein is obtained. The sound generator is a quarter wave type sound generator with a tubular resonator 10 shaped as a diffusor (14) at its open end.

IPC 1-7

F23C 11/00; **F23D 1/00**

IPC 8 full level

F23C 15/00 (2006.01); **F23C 99/00** (2006.01); **F23D 1/00** (2006.01); **F23D 11/34** (2006.01)

CPC (source: EP KR US)

F23C 15/00 (2013.01 - EP US); **F23C 99/003** (2013.01 - EP US); **F23D 1/00** (2013.01 - EP US); **F23D 11/34** (2013.01 - KR)

Cited by

EP0207433A3; CN103429957A; US10974279B2; WO2018080367A1; US9261276B2

Designated contracting state (EPC)

AT CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0144918 A2 19850619; **EP 0144918 A3 19860813**; **EP 0144918 B1 19890802**; AT E45211 T1 19890815; AU 3607684 A 19850606; AU 569561 B2 19880204; BR 8406111 A 19850924; CA 1237650 A 19880607; DE 3479234 D1 19890907; DK 564584 A 19850603; DK 564584 D0 19841128; ES 538187 A0 19860401; ES 8606610 A1 19860401; FI 84394 B 19910815; FI 84394 C 19911125; FI 844739 A0 19841130; FI 844739 L 19850603; IN 162295 B 19880423; JP S60211214 A 19851023; KR 850004312 A 19850711; SE 458799 B 19890508; SE 8306653 D0 19831202; SE 8306653 L 19850603; SU 1452494 A3 19890115; US 4650413 A 19870317; ZA 849348 B 19860924

DOCDB simple family (application)

EP 84114482 A 19841129; AT 84114482 T 19841129; AU 3607684 A 19841130; BR 8406111 A 19841130; CA 469101 A 19841130; DE 3479234 T 19841129; DK 564584 A 19841128; ES 538187 A 19841130; FI 844739 A 19841130; IN 885DE1984 A 19841122; JP 25393984 A 19841130; KR 840007585 A 19841201; SE 8306653 A 19831202; SU 3868103 A 19841129; US 67752684 A 19841130; ZA 849348 A 19841130